Manual bar code scanner settings

Introduction

Bar Code devices provide an accurate,easy,and fast method of data entry and data storage for computerized information systems.

The products we are offering now can be integrated into any host computer system by the following ways:

Keyboard
Wand
RS-232
Dual RS-232
USB
OTHERS

All the operating parameters are programmed by bar code programming menu and stored in non-volatile RAM which can retain the settings after power is turned off.

For the functions which are not listed in this menu,please consult your supplier for more details.

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Using The Setup Mode To Configure The Decoder

The decoder can be configured through the use of the computer keyboard. The decoder must de installd and powered to enter the setup mode. Once the unit is powered up, press and hold the following keys:

Left-Control, Caps Lock, Right-Shift, and Backspace[1]

- or -

Left-Control, F2, Right-Shift, and Backspace[2]

Once you release the keys, the decoder will produce a series of beeps, change the LED to orange and display a message similar to the following on your display:

F1-F10=Options, Use ARROW KEYS to Toggle/Move, ESC=Exit

To ensure that you have enough space on your command line for the cecober options to be displayed, we recommend that you either have your command prompt located at the root directory, or that you load an editor with a new file. This will allow the decoder to use most of the characters on your computer display. For example: in Windows load Write and in OS/2 load the Notepad program.

☞ *Note: In addition to using your keyboard to enter Setup Mode, you may scan the bar code below.*

Enter Setup Mode

☞ Note: This page is only for KBW interface reader, never execute any action if you are using Rs232 interface reader.

Setup Category

Key	Category	Options
F1	Interface	Transmit Speed CTRL/Special Char Delay Wedge Interface Send Numerics As Keyboard Country Output Mode Serial Baud Rate Serial Data Bits Stop Bits Serial Parity Serial Duplex Serial Data Format Inverted Serial Output Serial Intercharacter Delay Serial Caps Lock Serial Num Lock Wand Emulation Append Mode Wand Emulation Max Segment Size Wand Emulation Segment Output Delay Setup Mode Lockout
F2	Decoders/Scanner	Decoders On/Off Code 39 UPC/EAN/JAN/Supplements Code 128 Interleaved 2 of 5 Industrial 2 of 5 Codabar Code 93 MSI/Plessey Code 11 Laser/CCD Other
F3	Editing	Edit#1 - Edit#10
F4	Macros/Special Keys	Macro#1-Macro #10 keys
F5	Strings	String#1 - String#10
F6	Reserved	
F7	Buzzer/LED	Power Up Been Good Read BeepTone Beep Duration No Read LED Delay LED Power Save Mode
F8	Status/Diagnostics	Firmware Version and Release Date Laser/CCD Scanner Testing Keyboard Information Show Scan Codes
F9	Cloning	Lockout Cloned Reader Setup Mode Press ENTER To Begion Cloning
F10	Reset All Defaults?	Reset All Defaults?

Editing Keys

For those categories which have more than one option, the UP and DOWN arrow and ENTER keys are used to move from one option to the next. In addition to the UP and DOWN arrow keys, the CTRL UP and CTRL DOWN arrow keys are used to move to the bottom and the top of the list. The following is a list of all special editing keys and a description of their function:

Key	Description
Left Arrow, Right Arrow	Toggles through the settings for the current option.
Up & Down Arrow	Moves from one option to the previous or next within the category or group.
CTPL UP & Down Arrow	Moves to the top or bottom of the category or group.
Home & End	Moves to the beginning or end of an input field.
ALT Backspace	Toggles the output mode during configuration, between destructive backspace and non-destructive backspace. Defaults to non-destructive backspace.
CTRL + Keypad	Increases transmit speed during setup.
CTRL - Keypad	Decreases transmit speed during setup.
CTRL F7	Test the current Beep Tone and Beep Duration
CTRL F10	Resets the current option to the default setting.
SHIFT F10	If you are in a category with groups (F2-F5),SHIFT F10 resets the cuttent group. If you are in a category without groups (F1,F7-F10),SHIFT F10 resets the entire category.
ALT F10	Resets all options in current category to default settings.
CTRL Escape	Exit configuration, saving changes(Permanent).
SHIFT Escape	Exit configuration, saving changes(Temporanry)
ALT Escape	Exit contiguration, without saving changes.

☞ *Note: If you experience some character loss during setup, you may press the CTRL-(Keypad Minus) key to slow character transmission. To speed up character transmission, press the CTRL+(Keypad Pius) key.*

☞ Note: After 5 minutes of inactivity (no key presses the decoder will exit setup mode and save all changes.

The following sections docrment all of the setup mode categories and the groups and individual options within each category. Next to the option name is the default setting for the option. In addition to the default setting, the keys that are used for editing are listed to the right of the option name. The meaning of each of the key icons is as follows:

Key Icon	Meaning
← →	The left and right arrow keys scroll through available settings for the option.
ALT	An ALT keypad sequence may be used to enter characters for the setting.
A S C I I	All ASCII data is valid for the option.All characters are available for entry into the field.
GROUP	Used to indicate that the option represents a group of sub-options. The left and right arrows scroll through the list of option groups. After selecting the option group, up and down arrows are used to configure the bub-options.
OPERATION	Used to indicate that the option represents an edit operation and that all of the options listed below it are specific to that operation until the next operation is defined.
STRING TYPE	Used to indicate that the option represents a string type and that all of the options listed below it are specific to that type of string until the next string type is defined.

Multiscan Functions - 1

OUTPUT FIRMWARE VERSION

0A

RESET CONFIGURATION TO DEFAULTS

0B

OUTPUT MODE

OUTPUT MODE-KEYBOARD WEDGE

000600

OUTPUT MODE- SERIAL

000601

OUTPUT MODE-WAND EMULATION

000602

OUTPUT MODE- RESET

0B006

OUTPUTMODE-OCIA(NOT AVAILABLE YET)

000603

OUTPUT MODE- MAC (NOT AVAILABLE YET)

000604

BUZZER/LED

GOOD READ BEEP TONE - NONE

014200

GOOD READ BEEP TONE - RESET

0B142

GOOD READ BEEP DURATION - MEDIUM

014301

LED POWER SAVE MODE - ENABLE

01451

Multiscan Functions - 2

IMAGE

DECODE OPTIONS REVERSE IMAGE - ENABLE

01391

DECOOE OPTIONS REVERSE IMAGE - DISABLE

01390

CODEID

DECODE OPTIONS SEND BAR CODEID - DISABLE

01400

DECODE OPTIONS SEND BAR CODEID - ASA PREFIX

01401

DECODE OPTIONS SEND BAR CODE ID - RESET

0B140

DECODE OPTIONS SEND BAR CODE ID - ASA SUFFIX

01402

READING MODE

LASER/CCD MODE - SINGLE SCAN

013300

LASER/CCD MODE - SINGLE SCAN NO TRIGGER

013301

LASER/CCD MODE - MULTISCAN

013302

LASER/CCD MODE - MULTISCAN NO TRIGGER

013303

LASER/CCD MODE - CONTINUOUS SCAN

013304

LASER/CCD MODE - PULSE

013305

Interface - KBW

PC Communication

WEDGE MODE - AUTODETECT

000200

WEDGE MODE - SCAN SET2 PASS THRU

000204

Transmit Speed

TRANSMIT SPEED - 0

0000000

TRANSMIT SPEED - 25

0000025

LANGUAGE

KEYBOARD COUNTRY - USA

0005000

KEYBOARD COUNTRY - GERMAN

0005010

KEYBOARD COUNTRY - FRANCE

0005009

KEYBOARD COUNTRY - UNIVERSAL

0005025

Interface - Serial - 1

BAUD RATE

SERIAL BAUD RATE - 2400

000703

SERIAL BAUD RATE - 4800

000704

SERIAL BAUD RATE - 9600

000705

SERIAL BAUD RATE - 19200

000706

HAND SHAKE

SERIAL HANDSHAKE - NONE

001200

SERIAL HANDSHAKE - XON/XOFF

001201

SERIAL HANDSHAKE - RTS/CTS

001202

SERIAL HANDSHAKE - ACK/NAK

001203

SERIAL HANDSHAKE TIMEOUT - 2 SECONDS

0013020

SERIAL HANDSHAKE TIMEOUT - 5 SECONDS

0013050

Interface - Serial - 2

PARAMETERS

SERIAL DATABITS - 8

00081

SERIAL DATABITS - 7

00080

SERIAL STOP BITS

SERIAL STOP BITS - 1

00090

SERIAL STOP BITS - 2

00091

CHECK DIGIT

SERIAL PARITY - NONE

001000

SERIAL PARITY - ODD

001001

SERIAL PARITY - EVEN

001002

SERIAL PARITY - MARK

001003

SERIAL PARITY - SPACE

001004

SERIAL PARITY-RESET

0B010

Interface - WAND

CODE 128 WAND EMULATION - ENABLE

00141

CODE 128 WAND EMULATION - DISABLE

00140

SPEED

WAND EMULATION SPEED - FASTEST(0)

001500

WAND EMULATION SPEED - SLOWEST(3)

001503

BAR LEVEL

WAND EMULATION - BAR=I (HIGH)

00161

WAND EMULATION - BAR=0(LOW)

00160

CODE 11

CODE 11 - ENABLE

01261

CODE 11 - DISABLE

01260

CODE 39

CODE 39 ENABLE

00221

CODE 39 DISABLE

00220

FULLASCII ENABLE

00231

FULLASCII DISABLE

00230

Symbologies On/Off - 1

CODE 93

CODE 93 - ENABLE

00621

CODE 93 - DISABLE

00620

CODE 128

CODE 128 - ENABLE

00691

CODE 128 - DISABLE

00690

CODE 128 ISBT - ENABLE

00701

CODE 128 ISBT - DISABLE

00700

CODABAR

CODABAR - ENABLE

00851

CODABAR - DISABLE

00850

INTERLEAVED 2 OF 5

I2OF5 - ENABLE

00961

I2OF5 - DISABLE

00960

INDUSTRIAL 2 OF 5

ID2OF5 - ENABLE

01061

ID2OF5 - DISABLE

01060

Symbologies On/Off - 2

MSI/PLESSEY

MSI - ENABLE

01151

MSI - DISABLE

01150

UPC/EAN

UPC-A ENABLE

00341

UPC-A DISABLE

00340

UPC-E ENABLE

00351

UPC-E DISABLE

00350

EAN-13 ENABLE

00361

EAN-13 DISABLE

00360

EAN-8 ENABI E

00371

EAN-8 DISABLE

00370

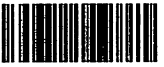
Symbologies Set Up-1

CODE 11

CODE 11 ID CHARACTER-'m'

0131m

CODE 11 ID CHARACTER - 'Z'



0131z

CODE 11 LASER/CCD REDUNDANCY - ENABLE

01321

CODE 11 LASER/CCD REDUNDANCY - DISABLE

01320

CODE 39

CODE 39 SS CHAR - NONE

002700

CODE 39 SS CHAR '+'

002704

CODE 39 SEND START/STOP CHARS ENABLE

00281

CODE 39 SEND START/STOP CHARS DISABLE

00280

CODE 39 ID CHARACTER'a'

0031a

CODE 39 ID CHARACTER'Z'

0031z

CODE 39 LASER/CCD REDUNDANCY ENABLE

00331

CODE 39 LASER/CCD REDUNDANCY DISABLE

00330

Symbologies Set Up - 2

CODE 93

CODE 93 ID CHARACTER'h'

0066h

CODE 93 ID CHARACTER' Z'

0066z

CODE 93 LASER/CCD REDUNDANCY - ENABLE

00681

CODE 93 LASER/CCD REDUNDANCY - DISABLE

00680

CODE 128

CODE 128 ID CHARACTER-'g'

0081g

CODE 128 ID CHARACTER -'Z'

0081z

CODE 128 LASER/CCD REDUNDANCY - ENABLE

00841

CODE 128 LASER/CCD REDUNDANCY - DISABLE

00840

CODABAR

CODABAR SEND START/STOP CHARS - ENABLE

00861

CODABAR SEND START/STOP CHARS - DISABLE

00860

CODABAR WIDE GAPSALLOWED - ENABLE

00901

CODABAR WIDE GAPS ALLOWED - DISABLE

00900

Symbologies Set Up - 3

CODABAR

CODABAR ID CHARACTER -'k'

0094k

CODABAR ID CHARACTER -' Z'

0094z

CODABAR LASER/CCD REDUNDANCY - ENABLE

00951

CODABAR LASER/CCD REDUNDANCY - DISABLE

00950

Interleaved 2 of 5

12 OF 5ID CHARACTER - 'i'

0104i

12 OF 5 ID CHARACTER - 'Z'

0104z

I2OF5LASER/CCD REDUNDANCY - ENABLE

01051

I2OF5LASER/CCD REDUNDANCY - DISABLE

01050

Industrial 2 of 5

ID2OF5 ID CHARACTER-'j'

0113j

ID2OF5 ID CHARACTER -'Z'

0113z

ID2OF5LASER/CCD REDUNDANCY - ENABLE

01141

ID2OF5LASER/CCD REDUNDANCY - DISABLE

01140

Symbologies Set Up - 4

MSI/PLESSEY

MSI ISBN ID CHARACTER-I

0053f

MSI ISBN ID CHARACTER-Z

0053z

MSI LASER/CCD REDUNDANCY-ENABLE

01251

MSI LASER/CCD REDUNDANCY-DISABLE

01250

UPC/EAN

EXPAND UPC-E TO UPC-A ENABLE

00381

EXPAND UPC-E TO UPC-A DISABLE

00380

EXPAND UPC-E TO EAN-13 ENABLE

00391

EXPAND UPC-E TO EAN-13 DISABLE

00390

CONVERT EAN-13 TO ISBN ENABLE

00481

CONVERT EAN-13 TO ISBN DISABLE

00480

UPC-A ID CHARACTER-b

0049b

UPC-A ID CHARACTER-Z

0049z

Symbologies Set Up - 5

UPC/EAN

UPC-EID CHARACTER'C'

0050c

UPC-EID CHARACTER'Z'

0050z

EAN-13 ID CHARACTER'e'

0051e

EAN-13 ID CHARACTER'Z'

0051z

EAN-8 ID CHARACTER'd'

0052d

EAN- 8 ID CHARACTER'Z'

0052z

ISBN ID CHARACTER'f'

0053f

ISBN ID CHARACTER'Z'

0053z

UPC/EAN SUPPLEMENTS-DISABLE

00550

UPC/EAN SUPPLEMENTS - 2 DIGIT ONLY

00551

UPC/EAN SUPPLEMENTS - 5 DIGIT ONLY

00552

UPC/EAN SUPPLEMENTS - 2&5 DIGIT

00553

Symbologies Set Up - 6

UPC/EAN

UPC/EAN LASER/CCD REDUNDANCY ENABLE

00541

UPC/EAN LASER/CCD REDUNDANCY DISABLE

00540

EDIT SETUP BAR CODES

EDIT#1 - STRIP 1 LEADING CHARACTER ON ALLBAR CODES THAT START WITH '12345'

02000101000000100000000112345

EDIT#1 - OFF

0B20001

EDIT#2 - STRIP1TRAILING CHARACTER

020002020000001

EDIT#2 - OFF

0B20002

EDIT#1 - FILTER LEADING SPACES

020001030000032

EDIT#1 - OFF

0B20001

EDIT#1 - FILTER TRAILING SPACES

020001040000032

EDIT#1 - OFF

0B20001

EDIT - FILTER ALL '-' CHARACTERS

020000050000045

EDIT - DISABLE FILTERING OFALL '-' CHARS

0B20000050000045

EDIT - INSERT LEADING ZERO

020000060000000048

EDIT - DISABLE INSERT LEADING ZERO

0B20000060000000048

MACRO/SPECIAL KEYS SETUP BAR CODES

MACRO #1 - F1ND'1'AND REPLACE WITH ONE

020101010110NE

MACRO #1 - DISABLED

0B20101

MACRO #2 - FIND 2 AND REPLACE WITH TWO FOR CODE 39 ONLY

02010203012TWO

MACRO #2 - DISABLED

0B20102

MACRO - FIND'0'AND REPLACE WITH'A'

02010001010A

MACRO - FIND'0'AND REPLACE WITH'A'-DISABLE

0B2010001010A

SPECIAL KEY - MAP F3 TO'0'

0162048

SPECIAL KEY - DISABLE F3 KEY MAPPING

0B162

SPECIAL KEY - MAP DEYPAD ENTER TO 2

0182050

SPECIAL KEY - DISABLE KEYPAD ENTERMAPPING

0B182

TERMINATION STRING SETUP BAR CODES

STRING#1 - TERMINATION CHAR - CR

0202011000$0D

STRING#1 - TERMINATION - LF

0202011000$0A

STRING#1 - TERMINATION CR+LF

0202011000$0D$0A

STRING#1 - DISABLED

0B20201

STRING#2 - CODE 128 TERMINATION CHAR - CR

0202021080$0D

STRING#2 - CODE 128 TERMINATION CHAR - LF

0202021080$0A

STRING#2 - CODE 128 TERMINATIONCHAR - CR+LF

0202021080$0D$0A

STRING#2 -CODE 128 TERMINATION CHAR - REMOVED

0B20202

STRING - CODE 39 TERMINATION CHAR - TAB

0202001020$09

STRING - CODE 39 TERMINATION CHAR - TAB - REMOVED

0B202001020$09

STRING - ALLCODES PREAMBLE - STX

0202002000$02

STRING - ALL CODES POSTAMBLE - ETX

0202003000$03

ACTION DESCRIPTION

A DISPLAY DECODER FIRMWARE VERSION NUMBER

B RESET DECODER 0R OPTION TO DEFAULT SETTINGS

C ENTER KEYB0ARD PROGRAMMING MODE - ACTIVE 0NLY WHEN IN KEYBOARD WEDGE MODE

OPTION NUMBERS AND DESCRIPTIONS

; F 1 - INTERFACE OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
000	KEYBOARD WEDGE TRANSMIT SPEED	BYTE	0	99	0-FASTEST
001	SPECLAL CHAR TRANSMIT DELAY	BYTE	0	255	50- (MSECS)
002	KEYBOARD WEDGE MODE	4BIT	0	6	0- (AUTODETECT)
003	AUTO-DETECT CAPS LOCK	BIT	0	1	0- (AUTODETECT)
004	NUMERIC KEY OUTPUT MODE	BIT	0	1	0- (MAIN KBD KEYS
005	KEYBOARD COUNTRY	BYIE	0	25	0- (USA)
006	DECODER OUTPUT MODE	4BIT	0	2	0- (KEYBRD WEDGE)
007	SERIAL BAUD RATE	4BIT	0	7	5- (9600)
008	SERIAL DATA BITS	BIT	0	1	1-8BITS
009	SERIAL STOP BITS	BIT	0	1	0-1 STO PBIT
010	SERIAL PARITY	4BIT	0	4	0-NONE
011	SERIAL INTERCHARACTER DELAY	BYIE	0	50	0- (MSECS)
012	SERIAL HANDSHAKE MODE	4BIT	0	3	0-NONE
013	SERIAL HANDSHAKE TIMEOUT	BYIE	0	100	20- (1 SECONDS)
014	CODE 128 WAND EMULATION	4BIT	0	1	0- (DISABLED)
015	WAND EMULATION OUTPUT SPEED	4BIT	0	3	2- (SLOW)
016	WAKD EMULATION BAR MODE	BIT	0	1	1- (BAR=1)
017	RESERVED				
018	RESERVED				
019	RESERVED				
020	RESERVED				
021	PROGRAM MODE LOCKOUT	BIT	0	1	0-DISABLED

; F2 - Code39 OPTIONS

OPTION

OPTION	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
022	Code39 DECODER	BIT	0	1	1 - ENABLED
023	FULL ASCII	BIT	0	1	0 - DISABLED
024	MODULO 43 CHECK DIGIT	BIT	0	1	0 - DISABLED
025	SEND CHECK DIGIT	BIT	0	1	0 - DISABLED
026	APPEND MODE	BIT	0	1	0 - DISABLED
027	SECONDARY START/STOP CHARS	4BIT	0	1	0-NONE
028	SEND START/STOP CHARS	BIT	0	1	0 - DISABLED
029	MAXIMUM LENGTH	BYTE	0	49	49
030	MINIMUM LENGTH	BYTE	0	49	0
031	ID CHARACTER	CHAR	1	1	'a'
032	CONTROL CHARACTER OVERRIDE	BIT	0	1	0
033	LASER/CCD REDUNDANCY	BIT	0	1	0

; F2-UPC/EAN OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
034	UPC-A DECODER	BIT	0	1	1-ENABLED
035	UPC-E DECODER	BIT	0	1	1-ENABLED
036	EAN/JAN-13 DECODER	BIT	0	1	1-ENABLED
037	EAN/JAN-8 DECODER	BIT	0	1	1-ENABLED
038	EXPAND UPC-E TO UPC-A	BIT	0	1	1-ENABLED
039	EXPAND UPC-A TO ENA-13	BIT	0	1	1-ENABLED
040	SEND UPC-A NUMBER SYSTEM CHAR	BIT	0	1	1-ENABLED
041	SEND UPC-E NUMBER SYSTEM CHAR	BIT	0	1	1-ENABLED
042	SEND UPC-A CHECK DIGIT	BIT	0	1	1-ENABLED
043	SEND UPC-E CHECK DIGIT	BIT	0	1	1-ENABLED
044	SEND EAN-13 COUNTRY CODE	BIT	0	1	1-ENABLED
045	SEND EAN-8 COUNTRY CODE	BIT	0	1	1-ENABLED
046	SEND EAN-13 CHECK DIGIT	BIT	0	1	1-ENABLED
047	SEND EAN-8 CHECK DIGIT	BIT	0	1	1-ENABLED
048	CONVERT EAN-13 TO ISBN	BIT	1	1	0-DISABLED
049	UPC-AID CHARACTER	CHAR	1	1	'b'
050	UPC-EID CHARACTER	CHAR	1	1	'c'
051	EAN-13ID CHARACTER	CHAR	1	1	'e'
052	EAN-8ID CHARACTER	CHAR	1	1	'd'
053	ISBN ID CHARACTER	CHAR	1	1	'f'
054	LASER/CCD REDUNDANCY	BIT	0	1	0-DISABLED

; F2-UPC/EAN SUPPLEMENTS OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
055	UPC/EAN SUPPLEMENTS DECODER	2BIT	0	3	0-DISABLED
056	UPC-A SUPPLEMENTS	2BIT	0	2	1-OPTIONAL
057	UPC-E SUPPLEMENTS	2BIT	0	2	1-OPTIONAL
058	EAN-13 SUPPLEMENTS	2BIT	0	2	1-OPTIONAL
059	EAN-8 SUPPLEMENTS	2BIT	0	2	1-OPTIONAL
060	ISBN SUPPLEMENTS	2BIT	0	2	1-OPTIONAL
061	SUPPLEMENTS SEPARATOR	STRING	0	9	NONE

; F2-CODE-93 OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
062	Code 93 DECODER	BIT	0	1	1-ENABLED
063	APPEND MODE	BIT	0	1	0-DISABLED
064	MAXIMUM LENGTH	BYTE	0	81	81
065	MINIMUM LENGTH	BYTE	0	81	0
066	ID CHARACTER	CHAR	1	1	'h'
067	CONTROL CHARACTER OVERRIDE	BIT	0	1	0-DISABLED
068	LASER/CCD REDUNDANCY	BIT	0	1	0-DISABLED

; F2-CODE 128 OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
069	CODE128 DECODER	BIT	0	1	1-ENABLED
070	ISBT DECODER	BIT	0	1	0-DISABLED
071	ISBT CONCATENATION PAIRS	STRING	0	4	NONE
072	ISBT PAIR #1	STRING	0	4	NONE
073	ISBT PAIR #2	STRING	0	4	NONE
074	ISBT PAIR #3	STRING	0	4	NONE
075	ISBT PAIR #4	STRING	0	4	NONE
076	ISBT PAIR #5	STRING	0	4	NONE
077	ISBT PAIR #6	STRING	0	4	NONE
078	FIELD SEPARATOR CHARACTER	CHAR	1	1	01DH (ASCH 'GS')
079	MAXIMUM LENGTH	BYIE	0	164	164
080	MINIMUM LENGTH	BYIE	0	164	0
081	ID CHARACTER	CHAR	1	1	'g'
082	UCC/EAN OUTPUT PREFIX	SRTING	0	3	NONE
083	CONTROL CHARACTER OVERRIDE	BIT	0	1	0-DISABLED
084	LASER/CCD REDUNDANCY	BIT	0	1	0-DISABLED

; F2-CODABAR OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
085	CODABAR DECODER	BYTE	0	1	1—ENABLED
086	SEND START/STOP CHARACTERS	2BIT	0	3	0—DISABLED
087	CHECK DIGIT	2BIT	0	2	0—DISABLED
088	SEND CHECK DIGIT	BIT	0	1	0—DISABLED
089	CLSL FORMATTING	BIT	0	1	0—DISABLED
090	WIDE INTERCHARACTER GAPS	BIT	0	1	0—DISABLED
091	ABC CONCATENATION	BIT	0	1	0—DISABLED
092	MAXIMUM LENGTH	BYTE	1	62	62
093	MINIMUM LENGTH	BYTE	1	62	1
094	ID CHARACTER	CHAR	1	1	'k'
095	LASER/CCD REDUNDANCY	BIT	0	1	0—DISABLED

; F2-INTERLEAVED 2 OF 5 OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
096	12 of 5 DECODER	BIT	0	1	1-ENABLED
097	CHECK DIGIT	BIT	0	2	0-DISABLED
098	SEND CHECK DIGIT	BIT	0	1	0-DISABLED
099	MAXIMUM LENGTH	BYTE	0	100	100
100	MINIMUM LENGTH	BYTE	0	100	0
101	FIXED LENGTH	BIT	0	1	0-DISABLED
102	FIXED LENGTH SIZE #1	BYTE	2	100	6
103	FIXED LENGTH SIZE #2	BYTE	2	100	14
104	ID CHARACTER	CHAR	1	1	'i'
105	LASER/CCD REDUNDANCY	BIT	0	1	1-ENABLED

; F2-INDUSTRIAL 2 OF 5 OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
106	INDUSTRIAL 2 OF 5 DECODER	BIT	0	1	1-ENABLED
107	START/STOP CHARACTERS	BIT	0	1	0-3 BAR START/STOP
108	MAXIMUM LENGTH	BYTE	2	49	49
109	MINIMUM LENGTH	BYTE	2	49	2
110	FIXED LENGTH	BIT	0	1	0-DISABLED
111	FIXED LENGTH SIZE #1	BYTE	2	49	6
112	FIXED LENGTH SIZE #2	BYTE	2	49	10
113	ID CHARACTER	CHAR	1	1	'i'
114	LASER/CCD REDUNDANCY	BIT	0	1	1-ENABLED

; F2-MSI OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
115	MSI DECODER	BIT	0	1	1-ENABLED
116	CHECK DIGITS	2BIT	0	2	0-MOD 10
117	SEND CHECK DIGIT	2BIT	0	2	0-DISABLED
118	ISBN DECODER	BIT	0	1	0-DISABLED
119	MAXIMUM LENGTH	BYTE	3	63	63
120	MINIMUM LENGTH	BYTE	3	63	3
121	FIXED LENGTH	BIT	0	3	0-DISABLED
122	FIXED LENGTH SIZE #1	BYTE	3	63	6
123	FIXED LENGTH SIZE #2	BYTE	3	63	14
124	ID CHARACTER	CHAR	1	1	'I'
053	ISBN ID CHARACTER	(USES SAME ID AS ISBN IN UPC/EAN)			
125	LASER/CCD REDUNDANCY	BIT		0	1	1-ENABLED

; F2-CODE 11 OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
126	CODE 11 DECODER	BIT	0	1	1-ENABLED
127	CHECK DIGIT	BIT	0	1	0-MOD 11
128	SEND CHECK DIGITS	2BIT	0	2	0-DISABLED
129	MAXIMUM LENGTH	BYTE	2	83	83
130	MINIMUM LENGTH	BYTE	2	83	2
131	ID CHARACTER	CHAR	1	1	'M'
132	LASER/CCD REDUNDANCY	BIT	0	1	0-DISABLED

; F2-LASER/CCD OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
133	OPERATING MODE	4BIT	0	5	0-SINGLE SCAN
134	TIMEOUT	BYTE	1	12	2- (2 SECONDS)
135	PULSE RATE	4BIT	2	7	3
136	PULSE TO CONTINUOUS THRESHOLD	BYTE	0	255	0-OFF
137	DUPLICATE READ DELAY	BYTE	0	127	5- (5 SECONDS)

; F2-OTHER DECODING OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
138	QUIET ZONES (MARGINS)	BIT	0	1	1-LARGE
139	REVERSE IMAGE DECODING	BIT	0	1	0-DISABLED
140	SEND BAR CODE TYPE ID	BIT	0	1	0-DISABLED

; F7-DEFINE THE BUZZER AND LED OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
141	POWER UP BEEP	BIT	0	1	1-ENABLED
142	GOOD READ BEEP TONE 4BIT	4BIT	0	5	2-MEDIUM
143	GOOD READ BEEP DURATION	BYTE	0	2	2-MEDIUM
144	NO READ LED DELAY	BYTE	0	65	20-(2.0 SECONDS)
145	LED POWER SAVE MODEBIT	BIT	0	1	0-DISABLED

;F4-DEFINE THE MACRO KEY MAPPING OPTIONS - MAP THE KEY TOA CHARACTER THAT CAN BE PRODUCED IN A BAR CODE SO THAT WHEN THE BAR CODE IS SCANNED - THE SPECIAL KEY IS OUTPUT.

OPTION					
NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
160	F1 MACRO	BYTE	0	255	255-OFF
161	F2 MACRO	BYTE	0	255	255-OFF
162	F3 MACRO	BYTE	0	255	255-OFF
163	F4 MACRO	BYTE	0	255	255-OFF
164	F5 MACRO	BYTE	0	255	255-OFF
165	F6 MACRO	BYTE	0	255	255-OFF
166	F7 MACRO	BYTE	0	255	255-OFF
167	F8 MACRO	BYTE	0	255	255-OFF
168	F9 MACRO	BYTE	0	255	255-OFF
169	F10 MACRO	BYTE	0	255	255-OFF
170	F11 MACRO	BYTE	0	255	255-OFF
171	F12 MACRO	BYTE	0	255	255-OFF
172	INSERT KEY MACRO	BYTE	0	255	255-OFF
173	DELETEQ KEY MACRO	BYTE	0	255	255-OFF
174	HOME KEY MACRO	BYTE	0	255	255-OFF
175	END KEY MACRO	BYTE	0	255	255-OFF
176	PAGE Up KEY MACRO	BYTE	0	255	255-OFF
177	PAGE DOWN KEY MACRO	BYTE	0	255	255-OFF
178	LEFT ARROW KEY MACRO	BYTE	0	255	255-OFF
179	RIGHT ARROW KEY MACRO	BYTE	0	255	255-OFF
180	UP ARROW KEY MACRO	BYTE	0	255	255-OFF
181	DOWN ARROW KEY MACRO	BYTE	0	255	255-OFF
182	KEY PAD ENTER KEY MACRO	BYTE	0	255	255-OFF
183	ALT KEY MAKE MACRO	BYTE	0	255	255-OFF
184	ALT KEY BREAK MACRO	BYTE	0	255	255-OFF
185	CTRL KEY MAKE MACRO BYTE	BYTE	0	255	255-OFF
186	CTRL KEY BREAK MACRO	BYTE	0	255	255-OFF
187	SHIFT KEY MAKE MACRO	BYTE	0	255	255-OFF
188	SHIFT KEY BREAK MACRO	BYTE	0	255	255-OFF

;F3- EDIT SETUP BAR CODE

OPTION					
NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
200	MACRO OPTION	SEE BELOW			DISABLED
	MACRO BAR CODE DATA FORMAT:				
		2 DIGIT MACRO # (00—10)			
		00— WILL AUTOMATICALLY SELECT THE FIRST AVAILABLE EDIT#			
		2 DIGIT ACTIVE FOR TYPE (1—9)			
		00—OFF			
		01—STRIP LEADING CHARACTERS			
		02—STRIP TRAILING CHARACTERS			
		03—FILTER LEADING CHARACTERS			
		04—FILTER TRAILING CHARACTERS			
		05—FILTER CHARACTERS			
		06—INSERT LEADING CHARACTERS			
		07—INSERT TRAILING CHARACTERS			
		08—CONVERT TO UPPERCASE			
		09—CONVERT TO LOWERCASE			
		2 DIGIT ACTIVE FOR TYPE (00-14)			
		00—ALL BAR CODE TYPES			
		01—ALL BAR CODE TYPES ALWAYS			
		02—CODE 39			
		03—UPC—A			
		04—UPC—E			
		05—EAN—13			
		06—EAN—8			
		07—ISBN			
		08—CODE 128			
		09—I 2OF5			
		10—CODABAR			
		11—CODE93			
		12—MSI			
		13—CODE11			
		14—INDUSTRIAL 2 OF 5			
		2 DIGIT ACTIVE FOR SIZE (00—99)			
		3 DIGIT BYTE 1 VALUE			
		3 DIGIT BYTE 2 VALUE			
		3 DIGIT BYTE 3 VALUE			
		3 DIGIT CONTAINS OFFSET			
		000=START CHARACTER+0	000—255		
		255=END CHARACTER-0			
		5 CHARACTER CONTAINS STRING -UP TO 5 CHARS			

;F4- MACRO SETUP BAR CODE

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
201	MACRO OPTION	SEE BELOW			
	MACRO BAR CODE DATA FORMAT:				
	2 DIGIT MACRO # (00-10)				
		00-WILL AUTOMATICALLY SELECT THE FIRST AVAILABLE MACRO#			
	2 DIGIT ACTIVE FOR TYPE (00-15)				
		00-NONE			
		01-ALL BAR CODE TYPES			
		02-ALL BAR CODE TYPES ALWAYS			
		03-CODE 39			
		04-UPC-A			
		05-UPC-E			
		06-EAN-13			
		07-EAN-8			
		08-ISBN			
		09-CODE 128			
		10-I2OF5			
		11-CODABAR			
		12-CODE-93			
		13-MSI			
		14-CODE 11			
		15-INDUSTRIAL 2 OF 5			

;F5-STRING SETUP BAR CODE

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
202	STRING OPTION				$OD(CR)
	STRING BAR CODE DATA FORMAT:				
	2 DIGIT STRING # (00-10)				
		00-WILL AUTO MATICALLY SELECT THE FIRST AVAILABLE STRING#			
	1 DIGIT STRING TYPE (0-3)				
		0-OFF			
		1-TERMINATION			
		2-PREAMBLE			
		3-POSTAMBLE			
	2 DIGIT ACTIVE FOR TYPE (00-14)				
		00-ALL BAR CODE TYPES			
		01-ALL BAR CODE TYPES ALWAYS			
		02-CODE 39			
		03-UPC-A			
		04-UPC-E			
		05-EAN-13			
		06-EAN-8			
		07-ISBN			
		08-CODE 128			
		09-I2OF5			
		10-CODABAR			
		11-CODE 93			
		12-MSI			
		13-CODE 11			
		14-INDUSTRIAL 2 OF 5			
	1 DIGIT SCAN DIRECTION (0-2)				
		0-ANY DIRECTON SCON			
		1-FORWARD SCAN			
		2-REVERSE SCAN			
	30 CHARACTER STRING TEXT - UP TO 30 CHARACTERS				

Hex	Dec	Description	Hex	Dec	Description	Hex	Dec	Description
$00	0	NUL(CTRL @)	$81	129	F2		163	
$01	1	SOH(CTRL A)	$82	130	F3		164	
$02	2	STX(CTRL B)	$83	131	F4		165	
$03	3	ETX(CTRL C)	$84	132	F5		166	
$04	4	EOT(CTRL D)	$85	133	F6		167	
$05	5	ENQ(CTRL E)	$86	134	F7		168	
$06	6	ACK(CTRL F)	$87	135	F8		169	
$07	7	BEL(CTRL G)	$88	136	F9		170	
$08	8	BS(Backspce)	$89	137	F10		171	
$09	9	HT(Tab)	$8A	138	F11		172	
$0A	10	LF(CTRL J)	$8B	139	F12		173	
$0B	11	VT(CTRL K)	$8C	140	Left Shift Make		174	
$0C	12	FF(CTRL L)	$8D	141	Left Shift Break		175	
$0D	13	CR(Enter)	$8E	142	Right Shift Make		176	
$0E	14	SO(CTRL N)	$8F	143	Right Shift Break		177	
$0F	15	SI(CTRL O)	$90	144	Left ALT Make		178	
$10	16	DLE(CTRL P)	$91	145	Left ALT Break		179	
$11	17	DC1(CTRL Q)	$92	146	Right ALT M		180	
$12	18	DC2(CTRL R)	$93	147			181	
$13	19	DC3(CTRL S)	$94	148			182	
$14	20	DC4(CTRL T)	$95	149			183	
$15	21	NAK(CTRL U)	$96	150			184	
$16	22	SYN(CTRL V)	$97	151			185	
$17	23	ETB(CTRL W)	$98	152			186	
$18	24	CAN(CTRL X)	$99	153			187	
$19	25	EM(CTRL Y)	$9A	154			188	
$1A	26	SUB(CTRL Z)	$9B	155			189	
$1B	27	ESC (ESC)	$9C	156			190	
$1C	28	FS(CTRL \)	$9D	157			191	
$1D	29	GS(CTRL])	$9E	158			192	
$1E	30	RS(CTRL ^)	$9F	159			193	
$1F	31	US(CTRL _)	$A0	160			194	
$7F	127	DEL(CTRL BKSpc)	$A1	161				
$80	128	F1	$A2	162				

Wireless barcode scanner Settings manual

Signal channel setting: First scanXM-01，Then scanning the corresponding parameter barcode scanning：00xx0，
Range of the signal channel：01-32

ID Settings: First scanXM-03，Then scanning the corresponding parameter barcode scanning：00xx0 Xx is corresponding to the ID number and ID number range is 0-99

Formatting Settings: Direct scanning XM - 02 barcode.This bar code also have the function of cancellation and open ID No.。

Command bar code：

XM-01

XM-02

XM-03

Parameter setting bar code：

00010

00020

00030

00040

00050

00060

00070

00080

00090

00100

00110

00120

00130

00140

00150

00160

00170

00180

00190

00200

00210

00220

00230

00240

00250

00270

00280

00290

00300

00310

00320

Problem: The decoder beeps, but no data is displayed on my computer.
Cause: The decoder is set to strip the same number of characters as there are in your bar code.
Solution: Reconfigure the decoder to not strip characters from the bar code.
- OR -
Cause: The decoder is configured to send the numeric data as KEYPAD NUMERICS, or the Keyboard Country setting is set to UNIVERSAL.
Solution: Reconfigure the decoder to Send Numerics As MAIN KEYBOARD KEYS and set the Keyboard Country setting to the country setting of your computer.

Problem: My programmable keyboard fails to program when the decoder is installed.
Cause: The decoder responds to valid keyboard commands from thd computer. Most programmable keyboard software programs send characters to the keyboard that are not valid commands.
Solution: Remove the decoder from the computer before programming your keyboard.

Problem: When I connected Rs232 interface reader to PC, I could not get power up sigmal.
Cause: There is no power from PC series port.
Solution: Use external power supply or take the power from pc.

Problem: When I connected Rs232 interface reader to PC or terminal, I got power up signal but no data transmitted.
Cause: This may couse by wrong pin out or wrong communication protocol.
Solution: Check the pin out and communication protocol to match the PC or terminal you are using.

Problem: I can not find the bar code label I need.
Cause: There are more than hundreds of bar codes need to be printed. All the bar code shows on this manual only the most common ones.
Solution: Follow the Bar Code Formats and print what you need.